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(71) Applicant (for all designated States except US): EURO-
CELTIQUE S.A. [LU/LU]; 122 Boulevard de la Petrusse,
L-2330 Luxembourg (LU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): STUMPF, Andreas
[DE/US]; 5504 Aspen Street, Dublin, CA 94568-7678
(US).

(74) Agents: ABRAMS, Samuel, B. et al.; Jones Day, 222 East
41st Street, New York, NY 10017-6702 (US).

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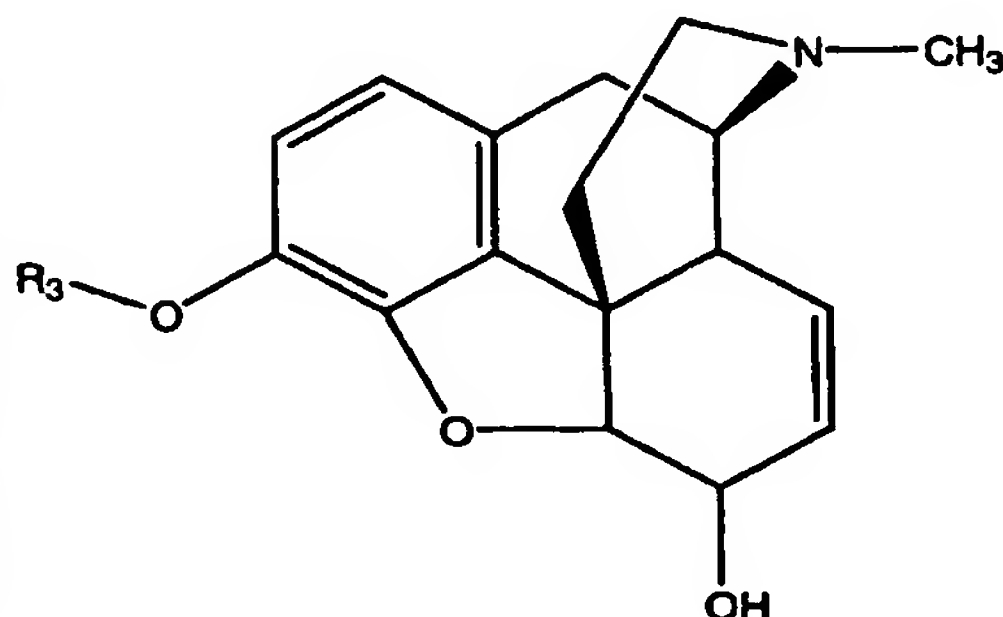
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(54) Title: METHODS FOR MAKING 3-O-PROTECTED MORPHINONES AND 3-O-PROTECTED MORPHINONE DIENOL
CARBOXYLATES



(I)

(57) Abstract: Disclosed are methods for making aldehy-
des and ketones comprising allowing the corresponding pri-
mary or secondary alcohol to react in the presence of tri-
chloroisocyanuric acid, a compound of formula R₁SR₂ and
a base. In one embodiment, the alcohol is a compound of
formula (I) wherein R₃ is a protecting group. Also disclosed
are methods for making 3-O-protected morphine dienol car-
boxylates comprising allowing a compound of formula (I) to
oxidize in the presence of a chlorine-containing compound
and a compound of formula R₁SR₂; and allowing the prod-
uct of the oxidation step to react with an acylating agent.

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